

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Tsien et al. Art Unit: Unassigned
Parent Serial No.: 09/118,728 Examiner: Unassigned
Parent Filing Date: July 17, 1998
Serial No.: Unassigned
Filed: August 18, 2003
Title: DETECTOR AND SCREENING DEVICE FOR ION CHANNELS

Mail Stop PATENT APPLICATION

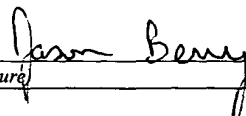
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 § CFR 1.97, Applicants bring to the Examiner's attention the related parent patent application, U.S. Serial No. 09/118,728, filed July 17, 1998, which is relied upon for an earlier filing date under 35 USC § 121. For the convenience of the Examiner, copies of the PTO Forms 892 and 1449 are enclosed.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

CERTIFICATION UNDER 37 CFR §1.10 "EXPRESS MAIL" Mailing Label Number: EV 318 738 086 US Date of Deposit: August 18, 2003	
I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with sufficient postage on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
JASON BERRY (Name of Person Mailing Paper)	
 (Signature)	August 18, 2003 (Date)

In re Application of:
Tsien et al.
Application No.: Unassigned
Filed: August 18, 2003
Page 2

PATENT
Attorney Docket No.: AURO1140-2

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement, because it is being filed prior to the receipt of a first office action on the merits of the above-captioned application. However, if any fee is required, authorization is hereby given to charge any fees associated with the filings submitted herewith, or credit any overpayment to Deposit Account No. 50-1355. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: August 18, 2003



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FORM 1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. AURO1140	Serial No.: 09/118,728
	Applicant(s): Tsien et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: July 17, 1998	Group Art Unit: 2877

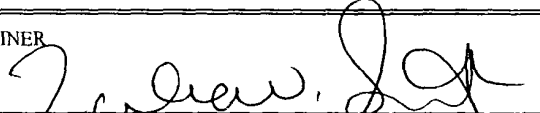
U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
A	3,905,852	09/16/1975	Mukai and Ikeda			
	5,086,220	02/04/1992	Berthold and Jeffers			
	5,239,360	08/24/1993	Moring and Mead			
	5,689,354	11/18/1997	Orino			
	5,745,620	04/28/1998	Bergmann			

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)
A	DE 3036638	4/29/1982	Germany			No
	EP 023679 A	8/5/1987	EP			
	FR 2661986A	11/15/1991	France			No
	EP 0521636A1	1/7/1993	EP			

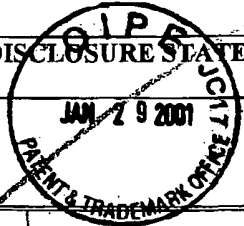
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

EXAMINER 	DATE CONSIDERED 10/14/02
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. AURO1140 (08366/006001)	Serial N.: 09/118,728
	Applicant(s): Tsien et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: July 17, 1998	Group Art Unit: 2877



U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
28	P42	5,627,638	05/06/97	Vokhmin			

FOREIGN PATENT DOCUMENTS

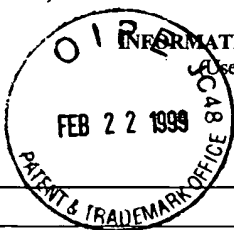
EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

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EXAMINER 	DATE CONSIDERED 3/18/03
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INFORMATION DISCLOSURE STATEMENT

Use several sheets if necessary)

APPLICANT:
Tsien et al.FILING DATE:
7/17/98GROUP:
2877

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
28	P1	3,885,879	5/27/75	Louder et al.			
	P2	4,204,743	5/27/80	Etaix			
	P3	4,265,511	5/5/81	Nicia et al.			
	P4	4,630,923	12/23/86	Tans et al.			
	P5	4,714,345	12/22/87	Schrader			
	P6	4,737,464	4/12/88	McConnell et al.			
	P7	4,747,687	5/31/88	Hoppe et al.			
	P8	4,759,601	7/26/88	Knutsen et al.			
	P9	4,792,689	12/20/88	Peterson			
	P10	4,992,092	5/1/90	Rushbrooke et al.			
	P11	5,026,139	6/25/91	Klainer et al.			
	P12	5,034,189	7/23/91	Cox et al.			
	P13	5,037,199	8/6/91	Hlousek			
	P14	5,096,671	3/17/92	Kane et al.			
	P15	5,138,153	8/11/92	Gergely et al.			
	P16	5,244,636	9/14/93	Walt et al.			
	P17	5,250,264	10/5/93	Walt et al.			
	P18	5,252,494	10/12/93	Walt			
	P19	5,280,389	1/18/94	Kunikane et al.			
	P20	5,298,741	3/29/94	Wakt et al.			
	P21	5,311,611	5/10/94	Migliaccio			
	P22	5,320,814	6/14/94	Walt et al.			
	P23	5,347,122	9/13/94	Ansorge et al.			
	P24	5,371,600	12/6/94	Hsia et al.			
	P25	5,399,866	3/21/95	Feldman et al.			
	P26	5,498,549	3/12/96	Nagel et al.			
	P27	5,557,398	9/17/96	Wechsler et al.			
	P28	5,569,911	10/29/96	Tomlinson, Jr. et al.			
	P29	5,589,351	12/31/96	Harootunian			
	P30	5,636,017	6/3/97	Bruno et al.			

EXAMINER

DATE CONSIDERED

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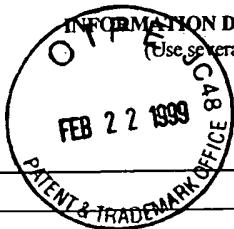
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PTO-1449
(8-83)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
08366/006001
(Auro-015.00us)

SERIAL NO.
09/118,728



INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

APPLICANT:
Tsien et al.

FILING DATE:
7/17/98

GROUP:
2877

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
3/1	P31	5,638,475	6/10/97	Gaebe			
	P32	5,670,113	9/23/97	Akong et al.			
	P33	5,672,515	9/30/97	Furlong			
	P34	5,678,751	10/21/97	Buchanan et al.			
	P35	5,684,711	11/4/97	Agrafiotis et al.			
	P36	5,694,215	12/2/97	Carver			
	P37	5,714,388	2/3/98	Kusnetz			
	P38	5,763,277	6/9/98	Zhu et al.			
	P39	5,769,791	6/23/98	Benaron et al.			
	P40	5,774,610	6/30/98	O'Rourke et al.			
26	P41	5,837,196	11/17/98	Pinkel et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
3/1	F1	WO 95/00832	1/5/95	PCT				
	F2	WO 96/02824 A1	2/1/96	PCT				
	F3	WO 97/10494	3/20/97	PCT				
	F4	WO 97/26539	7/24/97	PCT				
	F5	WO 98/09154	3/5/98	PCT				
	F6	0 587 281 A2	3/16/94	EPO				
	F7	0 590 145 B1	4/6/94	EPO				
	F8	0 590 230 852	3/25/98	EPO				
	F9	0 590 230 A2	7/1/98	EPO				

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OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. AURO1140 (08366/006001)	Serial No.: 09/118,728
	Applicant(s): Roger Tsien, et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: July 17, 1998	Group Art Unit: 2877

U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
3D	4,800,164	01/24/89	Bisconte			
3D	5,436,718	07/25/95	Fernandes et al.			
3D	5,283,178	02/01/94	Kessler et al.			
3D	5,217,285	06/08/93	Sopori			

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

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EXAMINER Zander. S. H.	DATE CONSIDERED 3/25/00
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Notice of References Cited			Application No. 09/188,728		Applicant(s) Tsien et al.	
			Examiner Zandra V. Smith		Group Art Unit 2877	
Page 1 of 1						

U.S. PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	
A	4,225,230	9/1980	Doostoomian et al.	356	407	
B	5,168,156	12/1992	Fischer et al.	356	436	
C	5,216,488	1/1993	Tuunanen et al.	356	440	
D	5,307,144	9/1980	Hiroshi et al.	356	440	
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FOREIGN PATENT DOCUMENTS						
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Notice of References Cited		Application No. 09/118,728		Applicant(s) Tsien et al.	
		Examiner Zandra V. Smith		Group Art Unit 2877	
Page 1 of 1					

U.S. PATENT DOCUMENTS					
DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	
A 5,985,214	11-1999	Stylli et al.	422	65	
B					
C					
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FOREIGN PATENT DOCUMENTS					
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Notice of References Cited	Application/Control No. 09/118,728	Applicant(s)/Patent Under Reexamination TSIEN ET AL.	
	Examiner Zandra V. Smith	Art Unit 2877	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,926,592	07-1999	Harris et al.	385/127
	B	US-5,670,113	09-1997	Akong et al.	356/414
	C	US-			
	D	US-			
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited

Application/Control No.

09/118,728

Applicant(s)/Patent Under
Reexamination
TSIEN ET AL.

Examiner

Zandra V. Smith

Art Unit

2877

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number	Date	Name	Classification	
		Country Code-Number-Kind Code	MM-YYYY			
	A	US-5670113	09-1997	Akong et al.	422	63
	B	US-				
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